TGL Timers

TGL series Cube Relay Interval On timers are a unique combination of digital CMOS timing circuitry with a relay output in a compact 2” x 2” configuration.

These units provide the same functional performance as plug-in relay timers, but at significant cost savings.

Timing Mode

Application of input voltage to the timer energizes the load and starts the time delay. At the end of the time delay, the load is de-energized. Removal and re-application of input voltage resets the timer.

FEATURES

- High current-carrying capacity up to 30 amps
- Transient protected
- 100% Load isolation
- No leakage in N.O. position
- No heat sinking required
- Available in any time delay period required
- Digital CMOS timing
- No minimum load required
- Totally encapsulated for protection from harsh environments
- 100% Operational testing before shipping
- RoHS compliant
**BASIC WIRING AND DIMENSIONS**

![Wiring Diagrams](image)

**OPTIONS SELECTION**

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<td><strong>Interval On</strong></td>
<td>TGL</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1</td>
<td>120 VAC</td>
<td></td>
<td></td>
<td></td>
<td>1 SPDT</td>
<td>H 10 Amps</td>
</tr>
<tr>
<td>2</td>
<td>230 VAC</td>
<td></td>
<td></td>
<td></td>
<td>2 SPST (N.O.)</td>
<td>J 20 Amps (1.5 HP)</td>
</tr>
<tr>
<td>3</td>
<td>24 VAC</td>
<td></td>
<td>0001 0.1 to 1 sec.</td>
<td>A Variable, integral,</td>
<td>3 SPST (N.C.)</td>
<td>JN 15 Amps (1.0 HP)</td>
</tr>
<tr>
<td>4</td>
<td>24-28 VDC</td>
<td></td>
<td>0010 0.1 to 10 sec.</td>
<td>B Variable, external</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>48 VAC</td>
<td></td>
<td>0100 1 to 100 sec.</td>
<td>C Fixed, internal,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>48 VDC</td>
<td></td>
<td>1000 10 to 1000 sec.</td>
<td>factory set.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>12 VDC</td>
<td></td>
<td>Any range up to 24 hours available.</td>
<td>D Fixed, external,</td>
<td></td>
<td></td>
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<tr>
<td>8</td>
<td>Any in between AC voltage (specify)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Any in between DC voltage (specify)</td>
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</table>

**SPECIFICATIONS**

- **Input Voltage:**
  - VDC: 12, 24 or 48
  - VAC: 24, 48, 120 or 230, 50/60Hz

- **Time Delay:**
  - **Timing Mode:** Interval On
  - **Type:** Digital CMOS
  - **Time Range:** 0.1 second to 24 hours
  - **Time Adjustments:** Factory-fixed time period; variable, with adjustments on timer, or terminals for external resistor or potentiometer

- **Repeatability:** ±0.5%

- **Setting Accuracy:**
  - Fixed period: ±10% of nominal time.
  - Variable time range: +15% -5% max. time, -10% min. time

- **Reset/Recycle Time:** 100 milliseconds

- **Initiate Time:** 6 milliseconds or less

- **Relay Life Expectancy:**
  - Mechanical: 20 million operations
  - Electrical: 100,000 operations

- **Protection:**
  - **Polarity Protection:** All DC units have reverse polarity protection
  - **Transient Protection:** 18 joules
  - **Dielectric Strength:** 1800V RMS 60Hz

- **Temperature Ranges:**
  - **Storage:** -40°C to +85°C
  - **Operating:** -25°C to +65°C

- **Physical Data:**
  - **Mounting:** Surface with one #8 screw
  - **Connection & Termination:** 0.25” quick connects

Specifications subject to change without notice.